

09772710-012001

1	ACA	OTC	AGC	C	M	A	P	L	C	P	E	P	W	P	L	12
13	TTG	ATC	CCG	CCG	CTG	CCC	CTG	TGC	CCC	AGC	CTG	TGG	CTG	CTG	CTG	48
49	L	I	P	P	A	P	G	L	T	V	Q	L	L	E	S	28
173	L	L	L	L	M	P	V	H	P	Q	R	M	Q	A	T	96
29	CTG	CTG	CTT	CTG	ATG	CTT	CTC	GAT	CCC	CAG	AGG	TTG	CCC	CAG	ATG	44
45	E	D	S	G	L	G	G	S	S	G	E	D	P	R	M	144
145	GAG	GAT	TCC	CCC	TTG	GGA	GGA	GCC	TCT	TCT	GCG	GAA	GAT	GAC	CCA	60
61	G	E	K	D	L	P	S	E	E	D	S	E	D	S	E	192
193	GCG	GAG	GAG	GAT	CTG	CCC	AGT	GAA	GAG	GAT	TCA	CCC	AGA	GAG	GAG	76
77	F	P	G	E	E	D	L	P	G	E	E	GAT	CTA	CCT	GGA	240
241	CCA	CCC	GGA	GAG	GAG	GAT	CTA	CCT	GGA	GAG	GAG	GAT	CTA	CCT	GGA	92
93	GAG	GAT	CTA	CCT	GAA	GTT	AAG	CCT	AAA	TCA	GAA	GAA	GAG	GCC	TCC	288
289	GAG	GAT	CTA	CCT	GAA	GTT	AAG	CCT	AAA	TCA	GAA	GAA	GAG	GCC	TCC	108
109	K	L	E	D	L	P	T	V	E	A	P	G	D	P	G	336
337	AAG	TTA	GAG	GAT	CTA	CCT	ACT	TTT	GAG	CTA	CTA	GAA	GAT	GAT	GAA	124
125	P	Q	N	M	A	H	R	D	K	E	G	D	D	Q	S	304
385	CCC	CAG	AAT	AAT	CCC	CAC	AGG	GAC	AAA	GAA	GAG	GAT	GAC	CAG	AGT	140
141	W	R	Y	G	G	D	P	P	W	P	R	V	S	F	A	432
433	TGG	CGC	TAT	GGA	G	D	P	P	W	P	R	V	S	F	A	156
157	A	G	R	F	G	S	P	V	D	I	R	P	Q	L	G	480
481	CCG	CCC	CTC	TTG	CAG	TCC	CCG	CTG	GAT	ATC	CCC	CCC	CAG	CTC	CCC	172
173	F	C	P	A	L	R	P	L	E	L	L	G	F	G	L	828
529	TTT	TGC	CTG	CCC	CTG	CCC	CTG	GAA	CTC	CTG	GGC	TTG	CAG	CTC	CCG	204
189	P	L	F	E	L	R	L	R	M	N	G	H	E	V	Q	824
577	CGC	CTC	CCA	GAA	CTG	CGC	CTG	CGC	AAC	AAT	GGC	CAC	AGT	GTG	CAA	204
205	T	L	P	P	G	L	E	M	A	L	G	P	G	R	E	672
625	ACC	CTG	CCT	CCT	GGG	CTA	GAG	ATG	GCT	CTG	GGT	CCC	GGG	CGG	GAG	220
221	R	A	L	Q	L	H	L	H	W	G	A	G	C	R	G	720
873	CGG	GCT	CTG	CAG	CTG	CAT	CTG	CAC	TGG	GGG	GCT	CCA	GGT	CGT	CCG	236
237	S	E	H	T	V	E	G	H	R	F	P	E	I	H	G	720
721	TCG	GAG	CAC	ACT	GTG	GAA	GCC	CAC	CGT	TTT	CCT	GGC	GAG	ATC	CAG	252
253	V	H	L	S	T	A	F	A	R	V	D	E	A	L	G	768
769	OTT	CAG	CTC	AGC	ACC	CCC	TTT	CCC	AGA	GTG	GAC	GAG	CCC	TTG	GGG	268
269	P	G	L	A	V	L	A	A	F	L	E	E	G	P	E	816
817	CCG	GGA	GCC	CTG	GCC	GTG	TTG	CCC	GGC	TTT	CTG	GAG	GAG	GCC	CGG	284
285	E	N	S	A	Y	E	O	L	L	S	R	L	E	E	I	864
865	GAA	AAC	AGT	CCC	TAT	GAG	CAG	TTG	CTG	TCT	CCC	TTG	GGA	GAA	ATC	300
301	K	E	G	S	E	T	Q	V	P	G	L	D	I	S	A	912
913	GAG	GAA	GCC	TCA	GAG	ACT	CAG	GTG	CCA	GGA	CTG	GAC	ATA	TCT	GCA	316
317	L	P	S	D	F	S	R	Y	F	G	R	T	G	T	L	960
961	CTG	CCC	TCT	GAC	TTG	AGC	CGC	TAC	TTG	G	Y	E	G	R	L	332
333	T	P	C	A	O	G	V	I	W	T	V	F	N	Q	T	1008
1009	ACA	CGC	CCC	TGT	CCC	CAG	GGT	GTG	ATC	TGG	ACT	GTG	TTT	AAC	CAG	348
349	V	M	L	S	A	K	Q	L	H	T	L	S	D	T	L	1056
1057	GTG	ATG	CTG	AGT	GCT	AAG	CAG	CTC	CAC	ACC	CTC	TCT	GAC	ACC	CTG	364
365	G	A	G	G	D	S	R	L	Q	L	N	F	R	A	T	1104
1105	GGA	CCT	GGT	GAT	CTG	CGG	CTA	CAG	CTG	AAC	TTG	CGA	GGG	AGC	CGG	380
381	L	N	G	R	V	I	E	A	S	F	P	A	G	V	D	1152
1153	TTG	AAT	GGG	GGA	GTG	AAT	GAG	GCC	TCC	TTT	CCT	GGT	AGA	GTG	GAC	396
397	S	F	R	A	A	E	P	V	Q	L	N	S	C	L	T	1200
1201	AGT	GCT	CGG	GCT	GCT	GAG	CCA	GTG	CAG	CTG	AAT	TCC	TCC	CTG	GCT	412
413	G	D	I	L	C	L	V	F	G	L	L	F	A	V	T	1248
1249	GGT	GAC	ATC	CTA	GCC	CTG	GTG	TTT	GGC	CTC	CTT	TTT	GCT	GTG	ACC	428
429	V	A	F	L	V	G	M	R	R	O	H	R	G	T	K	1296
1297	GTG	GGC	TTT	CTT	GTG	CAG	ATG	AGA	AGG	CAG	CAC	AGA	AGG	GGA	AGC	444
445	G	G	V	S	Y	R	P	A	E	V	A	E	T	G	A	1344
1345	GGG	GGT	GTG	AGC	TAC	CCC	CCA	GCA	GAG	GTA	GCC	GAG	ACT	GGA	GCC	460
1393	AGG	CTG	GAT	CTT	GGA	TGT	GAG	AGG	CCA	CCC	AGA	GGC	ATC	TGA	GGG	1392
1441	GGA	GGC	GGT	AAC	TGT	CCT	CTG	CTC	ATT	ATG	CCA	CTT	CCT	TTT	AAC	1440
1489	TGC	CAA	GAA	ATT	TTT	TAA	AAT	AAA	TAT	TAA	T					1488
0																1522

FIG. 1

100210.6122760

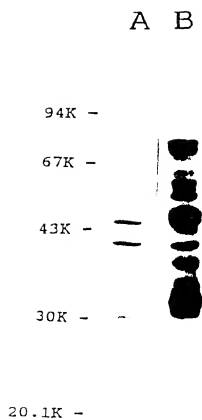


FIG. 2.

00772719.013001

A B C D



FIG. 3.

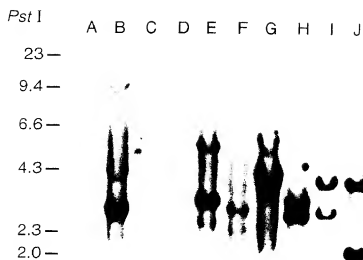
09772749-012004

1.5 kb -

A B C D E F



FIG. 4.

**FIG._5**

09772719-013001

09772719 012201

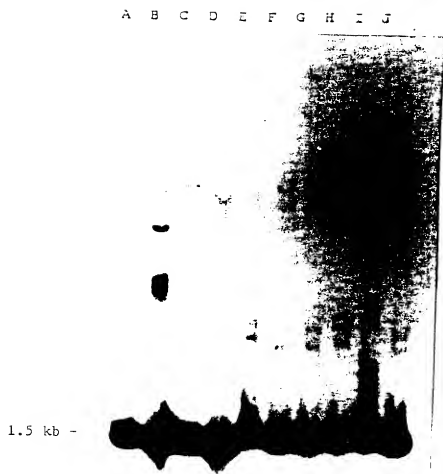


FIG. 5

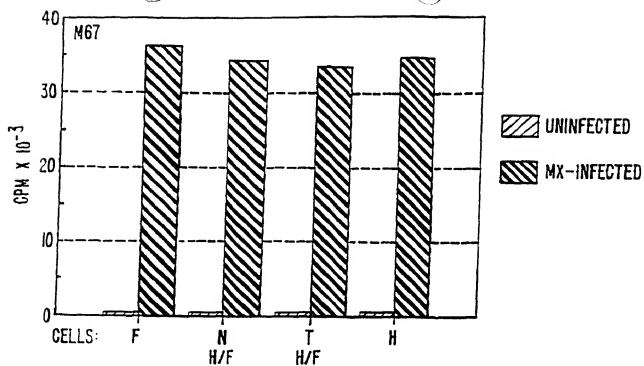


FIG. 6A.

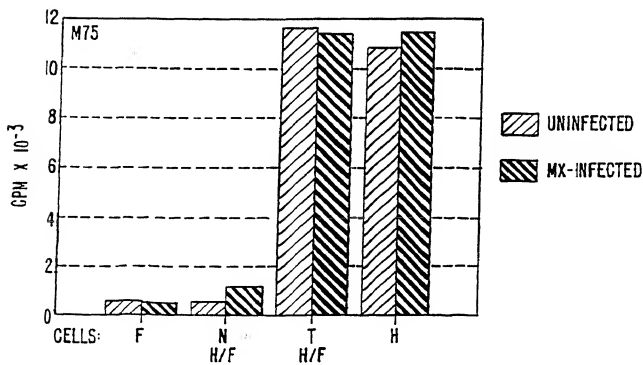


FIG. 6B.

0972719-013001



1
2
3

HeLa K
+ MX

HeLa K

FIBR.

H/F-N

H/F-T

HeLa S

-58k
-54k

FIG. 7.

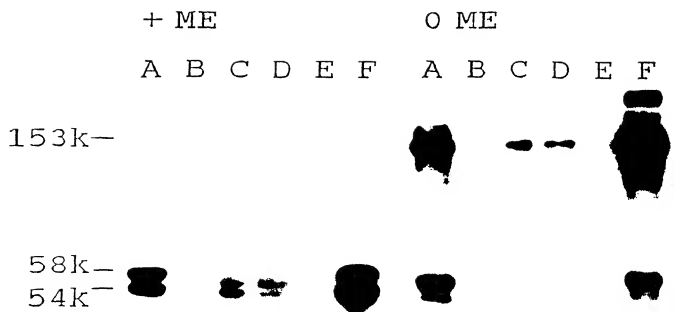


FIG. 8

100210* 8722262

A B C D E F G H I J K L M N O P

58k-
54k-



-

F/G 9.

+ME OME

A B A B

153k—



58k—

54k—



FIG. 10.

09772719-013004

0972719-020001

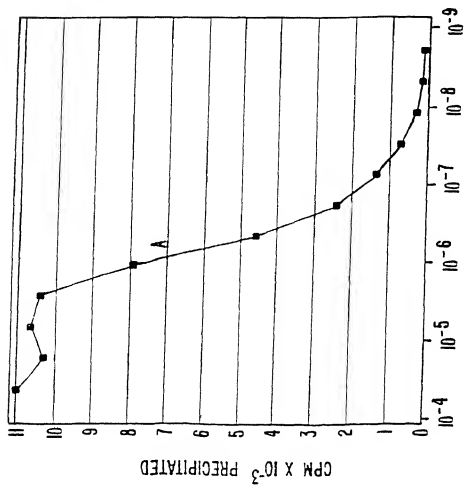


FIG. 11A.

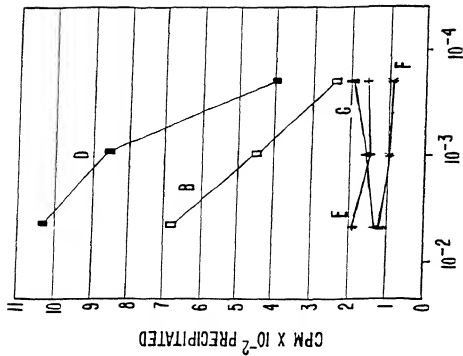


FIG. 11B.

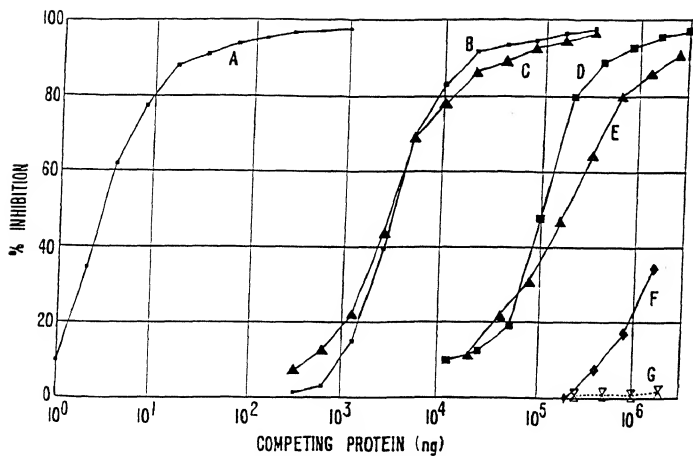


FIG. 12.



FIG. 13A.



FIG. 13B.



FIG. 13C.

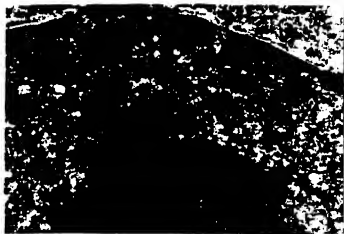


FIG. 13D.



FIG. 13E.

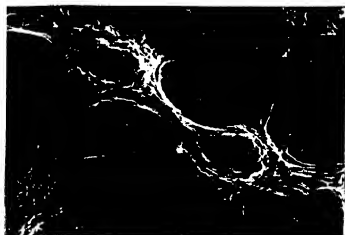


FIG. 13F.

09772719-013001

0972719-013001

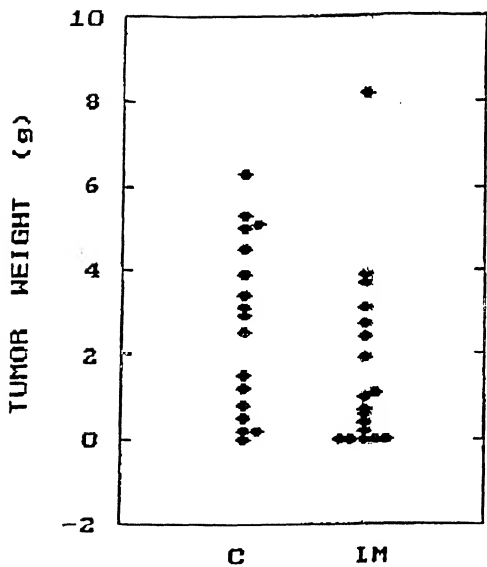


FIG. 14

1 ggatcctgtt gaacgtgac cttaccccca accctgtgca cctctgaaaca tgagctgtgt
 61 ccaactcagg ttaaatggat taagggcggt gcaagatgtg cttgtgttaaa cagatgcttg
 121 aaggcagcat gctcgttaag agtcattcacc aatccctaata ctaagtaaat caggggacaca
 181 aacactcggg aaggccgcag ggtcctctgc ctaggaaaaac cagagacott tgttcaactg
 241 tttatctgac ctccctcca ctattgtcca tgacctgccc aaatccccct cgttgagaaa
 301 caccacaaga ttatcaataa aaaataaat tcaaaaaaaa aatacaaaaa aaaaaaaaaa
 361 aaaaaaaaac gacttacgaa tagttattga taaatgaata gctattggta aagccaagta
 421 aatgatcata ttcaaaaaca gacggccatc atcacagctc aagtctacct gatttgatct
 481 ctttactcatt gtcatctctt ggatttcaata catcctcaaa attctcccc
 541 aagttctaat tacgtttcaa acatttaggg gttacatgaa ctttgaacct actacctctt
 601 ttgtctttga gccatgagtt gttagaatga tgagtttaca ccttacatgc tggggattaa
 661 tttaaacttt acctctaagt cagttgggta gcctttggct tatttttgta gctaaatttg
 721 tagttaatgg atgcactgtg aatcttgcta tgatagtttt cctccaact ttgccactag
 781 gggtaggtga gtactcagtt ttcagtaatt gcttacctaa gaccttaagc cctatttct
 841 ttgtactggc ctttactctg aatatgggca tatttaatac aataataatt ttggagtttt
 901 tttgtttggt tgtttgtttg tttttttgag acggagttctt gcattctgca tgcacaggt
 961 gtagtagcag tgggtccatc tcggctcact ccaagctcca cctcccgagt tcaacgccatt
 1021 ttctctgcct agccctccga gtagctggga ctacaggcgc ccgccacct gccccgctaa
 1081 tttttgttat ttttggtaga gacgggtttt caccgtgtta cgttgaacct agtctatct
 1141 ctgactctgt gatcaaccgc cctcggcctc ccaaggttct gggattacag gtgtgagcca
 1201 ccgcacctgg ccaatttttt gagtctttta aagtaaaaaa atgtctgtta agctgttaac
 1261 tatggtaaat ttcccttttt taatgtgggt ctgacgggtc tataggttct tttgagttg
 1321 gcatgcatat gctacttttt gcagtccttt cattacattt ttctctttc atttaagag
 1381 catgttaatat cttttagctt cacttggctt aaaaagttct ctctattagc taacacagtg
 1441 tcattgttgg taccacttgg atagggatga atcaataagt gaaaaacagt caagaaaattg
 1501 cttgtttgta agagggatga ttcagggtga tctgacacta agaaaactccc cactctgagg
 1561 tctgagattc ctctgacatt gctgtatata ggtctttcct ttgacagcct gtgactgagg
 1621 actatttttt ttaagcaaga tatgctaaag ttttgtgagc ctttttccag agagaggtct
 1681 catatctgca tcaagtgaag acatataatg tctgcatggt tccatttttc aggaatgttt
 1741 gctttgtggt tatgctttta tatagacagg gaaactgttt cctcagtgac ccaaaagagg
 1801 tgggaattgt tattggatatt catcattggc ccacgctttc tgacctgtga aacaattaa
 1861 ggttcaataa ctcaattctg tcaagaattg tacaagaaat agctgctatg ttcttgaca
 1921 ttccacttgg taggaataaa ctcttctact ggttgtaaaa cctctcagtt ggtgtgtgct
 1981 ttgcaatttc ctcttctact tgttaaaaaa ttgctctgag ttgctctgag aggtgaggca
 2041 ttctttaatc tgactctttaa agatcaataa tataatcctt tcaaggatta ttgtcttatt
 2101 ataataaaga taatttgcct ttaacagaat caataatata atcccttaaa ggattatct
 2161 ttgtctgggc gcagtggtc acacctgtaa tcccgacact ttgggtggcc aaggtggaag
 2221 gatcaaatgt gctacttct atattatott ctcaagcaga attcatctct cttccctcaa
 2281 tatgatgata ttgacagggt ttgccctcac tcaatagatt ttccaggtct cttccaggga
 2341 ggtagcgttt ttgttttttg tttttgtttt tcttttttga gacagggctt tgcctgtcta
 2401 ccaaggccag agtgcaatgg tacagttcca gctcactgca gccctaacgc cctcggctca
 2461 aaccatcate ccatttcagc ctecttagta gctgggacta cagggtttgg ccaggcacatg
 2521 ttgctaaatt tttgttatt ctagttaga cagggtcttc ccatgttgcc cgggctggte
 2581 tcgaactcct ggactcaagc aatccaccca cctcagcttc ccaaaaatgag ggaacctgtc
 2641 ttatttcatt ccattgcccc agtccatagc ccagtgtggt accattggta gtaactaaat
 2701 aatatttggg gaatgcaata tttcaggaga caagaactag attacaacag
 2761 gtggtaaaag ttgtggagaa aaaaataata gctagagatg gaggagagtg
 2821 agtagagac aagatggaaa ggtctcttgg gcaagtgatt ggaagtcaga
 2881 agtacaacat gtgcatatgc tggcaggcag atgaagcctt ttgagcagga
 2941 ggttaattgt aatataagta aaactatca atgacctct cagacataca
 3001 cttgcttttc attcaagctc aagtttgtct cccacatacc cattacttaa ctcacctctg

FIG. 15a

3061	ggctccccccta	gcaatgtgcc	ctacctctttt	acctgtcttc	gggtggagtc	agggatgtat
3121	acatgagctg	cttctccctct	cagccagaggy	acatggggggg	cccagagctcc	ctctgcctttc
3181	ccctctctgtg	cctggagctg	ggaagcaggg	caggggttagc	tgaggctggc	tggcaagcag
3241	ctgggtgggtg	ccagggagag	ccgtcatagt	gccaggttggt	gccctggggt	ccaagctagt
3301	ccatggcccc	gataaccttc	tgctctgtgca	cacacctggc	ctctactcca	ccccctccct
3361	agctttgggta	tgggggagag	ggcacagggg	cagacaaacc	tgtgagactt	tggctccatc
3421	tgtgcgaaaag	ggcgctctgt	gagtcagcct	gtccccctcc	aggctgtgctc	ctccccacc
3481	cagctctcgt	ttccaatgca	cgtacagccc	gtacacacgc	tgtgctggga	caccccACAG
3541	TCAGCCGCAT	GGCTCCCTCT	TGCCCCAGCC	CCTGGCTCC	TCGTGTGATG	CCGGCCCCTG
3601	CTCCAGGCCT	CACGTGTGCA	CTGCTGTGCT	CACGTGTGCT	TCGTGTGCT	GTCCATCCCC
3661	AGAGGTTGCC	CCGGATGCAG	GAGGATTTCC	CCTTGGGAGG	AGGCTCTTCT	GGGGAAGATG
3721	ACCCACTTGG	CGAGGAGGAT	CTGCCAGTG	AAGAGGATG	ACCCAGAGAG	GAGGATCCAC
3781	CCGGAGAGGA	GGATCTACCT	GGAGAGGAGG	ATCTACCTGG	AGAGGAGGAT	CTACCTTGAAG
3841	TTAAGCCTAA	ATCAGAAAGAA	GAGGGCTCCC	TGAAGTTAGA	GGATCTACCT	ACTGTTGGAG
3901	CTCTCGGAGA	TCCCTCAAGAA	CCCCAGAATA	ATGCCACAG	GGACAAAGAA	Ggttaagtgt
3961	caaccaatctc	caaatccagg	ttccaggagg	ttcatgactc	ccctcccata	ccccagccta
4021	ggctctgttc	actcagggaa	ggagggggaga	ctgtactccc	cacagaagcc	cttccagagg
4081	tccccatacca	atatccccat	ccccactctc	ggaggttagaa	agggacagat	gtggagagaa
4141	aataaaaaag	gtgcgaaaag	agagaggtga	gctggatgaa	atgggagaga	agggggaggg
4201	tggagaaagag	aaagggatga	gaactgcaga	tgagagaaaa	aattgtgcaga	cagaggaaaa
4261	aaataggtgg	agaaggagag	tcagagagat	tgaggggaag	agaaaaagaa	agcttgggag
4321	gtgaagtggg	taccagagac	aagcaagaag	agctggtaga	agtcatctca	tcttaggtga
4381	caatgaggaa	ttagagacct	ggaagaaggg	acacagcagg	tacagaaaacg	tggctctctt
4441	actcccaagc	caggaatttg	gggaaagggg	ttggagacca	tacaagggcag	agggatgagt
4501	ggggagagaa	aagaaagggg	aaagggaaaa	tgtgttactc	actcattttg	gactcaggac
4561	tgaagtgcctc	actccacttt	tttttttttt	ttttttgagc	aaactttcac	ttttgtggcc
4621	caggtctggag	tgcgaatggg	cgaatctggc	tcactgcac	ctccacctcc	cgggttcaag
4681	tgtattctctc	ctctcagcct	ctagccaagt	agctgcgatt	acagggcatgc	gccaccacgc
4741	ccggctcaatt	tttgtatttt	tagtagagac	ggggtttcgc	catgttggtc	aggctggtct
4801	cgaactcctg	atctcaggtt	atccaaccac	ctggcctccc	ggattatagc	gattatagc
4861	ctgtgagccac	agcgcttggt	ctgaagcagc	cactcacttt	tacagaccct	aagacaatga
4921	tttccaagctg	gtaggattgc	tgtttggccc	accagctgc	ggtgttgagt	ttgggtgccc
4981	tctcctgtgc	tgttcacgtg	gcccgcctaa	ggcattttgt	accctgaatg	ctcctgtaa
5041	gcattctcgt	tttgtgacat	gttttgggtc	ccaggaaggg	attggggctc	taagcttgag
5101	cggttctatct	ttttctattta	tacagGGGAT	GACCCAGATC	ATTGGCGCTA	TGGAGTtgag
5161	acacccaccc	gctgcacaga	cccaatctgg	gaaccagctg	ctgtggaatc	ccctacagc
5221	cgctccctgaa	cactgtgtcc	gggcgtccca	accgcgcctc	accgtccacc	cactcacctc
5281	tttctacccg	ggttccctaa	gttccctgacc	tagggctgac	acttctccac	tatactctcc
5341	cacccccagGC	GACCCCGCCT	GGCCCCGGGT	GTCCCCAGCC	TGCCCGGGCC	CTTCCAGTC
5401	CCCGGTGGAT	ATCCCGCCCC	AGCTCGCCGC	CTTCTGCCCG	CGCCTGCGCC	CCCTGGAACT
5461	CTTGGGCTTC	CAGCTTCCCG	CGCTCCCGA	ACTGCGCGCT	CGCAACCAAT	GCCACAGTgG
5521	tgaagggggg	tccccgcgga	gacttgggga	gtggggcggg	gcaggggaag	gaaacgttgc
5581	cgagtgccct	cgccgggggt	tgggctggcc	ctaccggcg	ggggcggtc	acttgcctct
5641	ccctacgcga	TGCCACTGAC	CCTGCCCTCT	GGGCTAGAGA	TGGCTTGGG	TCCCGGCGCG
5701	GATGACCGGG	CTCTGCAGCT	GCATCTGCAC	TGGGGGGCTG	CAGGTCCTCC	GGGCTCGGAG
5761	CACACGTGGG	AAGGCCACCG	TTTCCCTGCC	GAGgtgaagc	cggactggcc	gagaaggggc
5821	aaaggagcgg	ggcggaaggg	ggccagagac	gtggccctct	ctaccctcgt	tgtctctttc
5881	agATCCACGT	GGTTCACCTC	AGCACCGCCT	TTGCCAGAGT	TGACAGGGCC	TTGGGGCGCC
5941	CGGGAGGCCT	GGCCGTGTG	CGCCCTTTC	TGGAGctacc	agatccttga	cacccctcac
6001	tccccgcttt	ccatcccatc	gctcctcccg	gactctatcg	tggagccaga	gacccctacc
6061	cagcaagctc	actcagggcc	ctggctgaca	aactcattca	cgactgtttt	gttcatttaa
6121	ccccactgtg	gaaccaggca	ccagccccc	acaaagattc	tgaagctgta	ggtccttgcc
6181	tctaaaggagc	ccacagccag	tgggggaggg	tgacatgaca	gacacatagg	aaggacatag
6241	taaagatggct	ggttcacagag	gaggtgacac	ttaaagccct	cactggtaga	aaagaaaaag

FIG. 15b

6301	aggtgttcat	tgcagaggaa	acagaatgtg	caaagactca	gaatatggcc	tatttaggga
6361	atgggtacat	acaccatgat	tagaggaggg	ccagtaaagg	gaagggatgg	tgagatgcct
6421	gctagggtta	ctcactcact	tttatttatt	tatttatttt	tttgacagtc	tctctgtcgc
6481	ccaggctggg	gtgcctagggt	gtgatcttgg	gtcactgcaa	cttcgccctc	ccgggttcaa
6541	gggattctcc	tgccctcagct	tccctagtag	ctgggggttac	aggtgtgtgc	ccacatgcc
6601	agctaatttt	ttttgttatt	tttagtagac	agggtttcac	catgttggtc	aggctgggtc
6661	caaaactcctg	gcttcctaagg	atccgcctga	ctcagccctac	caaaagtctg	attacaagtg
6721	tgagccacog	tgccagcgca	cactcactga	ttctttaatg	ccagccacac	agrcacaaagt
6781	tcagagaaat	gcctccatca	tagcatgtca	atatgttcat	actcttaggt	tcagtatgtt
6841	cttaaacattt	gggtcataag	caaaaataaga	aaaaagaata	ataaataaaa	gaagtggcat
6901	ctcaggacact	cacctcgaaaa	gccaaacaca	gaatcatgaa	gggtgaatgca	gaggtgacac
6961	caacacaaag	gggttatatat	ggtttctctg	ggggagtagc	tacggaggga	ccagtgagtg
7021	agactgcaaa	cgtcagaagg	gcacgggtca	ctgagagcct	agtatcctag	taaaagtgggc
7081	tctctcctcc	tctctccagc	ttgtcattga	aaaccagctc	accaagcttg	ttggttcgca
7141	cagcaagagt	acatagagtt	tgaataata	cataggattt	taagaggggag	acactgtctc
7201	taaaaaaaa	aaacaacagca	acaacaaaa	gcaacaacca	taccattttt	atggttccctc
7261	agcattctca	gagctcgagg	atgggagagg	actatgggtta	cccccttcct	gttccggcct
7321	tcagccatgg	cctctggatc	atgcactcat	ctgtctttaca	atgtcatctc	cccgGAGGG
7381	CCCGGAGGAA	AACAGTGCTC	ATGAGCAGTT	GCTGTCTCGC	TGGGAAGAAA	TCGCTGAGGA
7441	AGGtcaagtt	gttgggtctgg	ccactaatct	ctgtgggtcga	gttcataaag	aatccacctt
7501	tggagcttca	gggtctgagcc	tggagatggg	ctccctccag	ccaaaggagg	attgaagcat
7561	gagccagcgc	tcactcttgat	aataaccatg	aagctgacag	acacagcttc	ccgcaaacgg
7621	ctgcctacag	attgaaaaacc	aagcaaaaa	cgccgggtcac	gggtgctcac	gctgttaact
7681	ccagcacttt	gggaggccaa	ggcaggtgga	tcacgaggtc	aagagatcaa	gaccaatcctg
7741	gccacaatgc	tgaacaccaca	tctctactaa	aaatcacgaa	aaaatggcag	gggtgggtggc
7801	gggtgcctgt	aactccagct	ctcggggagg	ctgaggcgag	agaatggcat	gactccgggtc
7861	ggcagaagtt	gcagtgagcc	gagatctgtc	cactgcactc	cagcctgggc	aacagagcga
7921	gactcttgct	tcaaaaaaaa	aaaaaaaaaa	gaaaaccaag	caaaaaacca	aatgagacaa
7981	aaaaaaacaa	acaaaaaaat	gggtgttgga	aattgtcaag	gtcaagtctg	gagagctaaa
8041	ctttttctga	gaactgttta	tctttaataa	gcatacaata	ttttaacttt	gtaaataactt
8101	ttgtgtgaaa	tcgtttctctt	cttagtcact	cttgggtcat	tttaaactctc	acttaactcta
8161	ctagaccttt	taggtttctctg	ctagactagg	tagaactctg	cttttgcatt	tctttgtctt
8221	gttttgtata	gtttacaata	ttcatattta	tttacaagtt	attcagatca	ttttttcttt
8281	tctttttttt	tttttttttt	ttttttacat	cttttagtaga	gacaggggtt	caccatattg
8341	gccagctctgc	tctcaaaactc	ctgaccttgt	gatccaccag	ctgcgccctc	ccaaagtgc
8401	gggattcatt	ttttctttttt	aatttgcctc	gggcttaaac	ttgtggccca	gcactttatg
8461	atgggtacaca	gagtttaagag	tgtagactca	gacggtcttt	ctctcttctc	tctcttctct
8521	ctccctctcc	ctcccactgc	cccttctctc	cttctctctc	ttcttctctc	cttgcctctc
8581	caggctctcc	ccagctgtctc	caaaagccctc	tacttttttt	tgagtttaacg	tcttatggga
8641	agggcctgca	cttagtgaag	aagtgtgtctc	agagtttagt	taccttgggtc	tcgtggaggt
8701	gaaactgtat	ccctataacc	tgaagcttta	aggggggtgca	atgtagatga	gaccccaaca
8761	tagatcctct	tcacagGCTC	AGAGACTCAG	GTCCGAGGAC	TGGACATATC	TGCACCTCTG
8821	CCCTCTGACT	TCAGCCGCTA	CTTCCAATAT	GAGGGGTCTC	TGACTACACC	GCCTCTGTCC
8881	CAGGGGTGTA	CTTGACTGT	GTTTAACCA	ACAGTGTATG	TCAGTGCTAA	GCAGgtgggc
8941	ctgggggtgta	tgtggacaca	gtgggtgcgg	ggggaagagg	gtctaagatg	agatgagaaa
9001	cagagagaaga	aagaaaatcaa	ggcttgggctc	tgttggcttac	acgtataatc	ccacacagtt
9061	ggggagggctga	ggtgggagaa	tgggttgagc	ccaggaggttc	aagacaaggc	ggggcaacat
9121	agtgttgacc	catctctacc	aaaaaaaacc	caacaaaacc	aaaaaatagc	gggcatgtgt
9181	gtatgcggcc	tagtcccgagc	tactcaaggga	ggctgaggtg	ggaagatcgc	ttgatctcag
9241	gagttttaga	ctgcagtgag	ccatgatccc	accactgcct	accatcttta	ggatatactt
9301	atttattttat	aaaagaaatc	aagaggctgg	atgggggaata	caggagctgg	agggtggagc
9361	cctgaggtgc	tggttctgag	ctggcctggg	acctcttggt	ctgtctaatg	catgaaccca
9421	ccacactgtg	ccactgacct	ccctagCTCC	ACACCCTCTC	TGCACCTCTG	TGGGACCTTG
9481	GTGACTCTCG	GCTACAGCTG	AACCTCCGAG	CGACCGACCC	TTTGAATGGG	CGAGTGATTG

FIG. 15c

9541	AGGCCCTCCTT	CCCTGCTGGA	GTGGACAGCA	GTCTCTCGGGC	TGCTGAGCCA	Ggtacagctt
9601	tgtctgtgttt	ccccccagcc	agtagtccct	tatcctccca	tgtgtgtgtcc	agtgtctgtc
9661	attgggtggtc	acagcccgcc	tctcacatct	cctttttctc	tccagTCCAG	CTGAATTCCT
9721	GCCTGGCTGC	TGgtgagttct	gccccctctc	ttggtcctga	tgccaggaga	ctccctcagca
9781	ccattcagcc	ccaggggtgc	tcaggaccgc	ctctgctccc	tctccttttc	tgcaaacag
9841	accccaacc	caatattaga	gaggcagatc	atgggtggga	ttccccatt	gtccccagag
9901	gctaattgat	tagaatgaag	cttgagaaat	ctcccagcat	ccctctcgca	aaagaatccc
9961	ccccctttt	tttaaagata	gggtctcact	ctgtttgccc	caggctgggg	tgtgtggga
10021	cgatcatagc	tcactgcagc	ctcgaactcc	taggtctcag	caatcctttc	accttagctt
10081	ctcaaagcac	tgggactgta	ggcatgagcc	actgtgcctg	gccccaaacg	gccccctttac
10141	ttgggtttta	gggaagcaaaa	acgggtgcta	tcttaccctt	tctcgtgtat	ccacccctcat
10201	cccttggtctg	gcctcttctg	gagactgagg	cactatgggg	ctgcctgaga	actcggggca
10261	gggtgtgtgtg	agtgcactga	ggcaggtgtt	gaggaactct	gcagaccctt	cttctctccc
10321	aaagcagccc	tctctgctct	ccatcgagc	TGACATCCTA	GCCCTGGTIT	TtggccTcCT
10381	TTTTGCTGTC	ACCAGCGTCG	CGTTCCTTGT	GCAGATGAGA	AGGCAGCACA	Ggtattacac
10441	tgaccctttc	ttcaggcaca	agcttccccc	acccttgttg	agtcacttca	tgcaaacgc
10501	atgcaaatga	gctgctcctg	ggccagtttt	ctgattagcc	tttctgtgtg	tgtacacaca
10561	gAAGGGGAAC	CAAAGGGGGT	GTGAGCTACC	GCCGAGCAGA	GGTAGCCGAG	ACTGGAGCCT
10621	AGAGGCTGGA	TCTTGGAGAA	TGTGAGAAGC	CAGCCAGAGG	CATCTGAGGG	GGAGCCGGTA
10681	ACTGTCCTGT	CCTGCTCATT	ATGCCACTTC	CTTTAAACTG	CCAAGAAAT	TTTTAAATA
10741	AATATTTATA	ATaaaataty	tgttagtcac	ctttgttccc	caaatcagaa	ggaggatatt
10801	gaatttccta	ttactgttat	tagcaccaat	ttagtggtaa	tgcatttatt	ctattacagt
10861	tcggcctcct	tccacacatc	actccaatgt	gttgctcc		

FIG. 15d

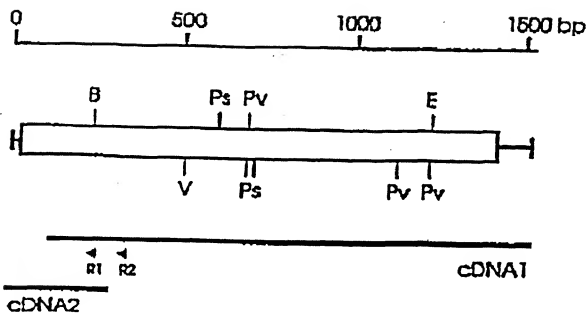


FIG. 16

09772719-043004

0972719.013001

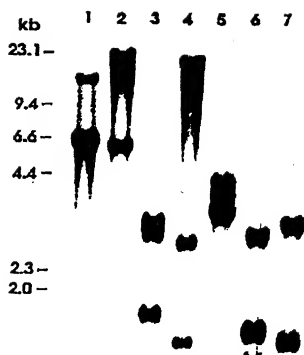


FIG. 17

09772719-013001

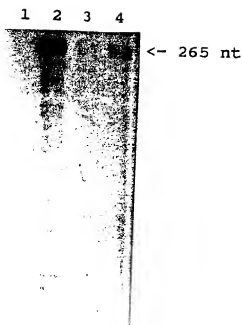


FIG 18a

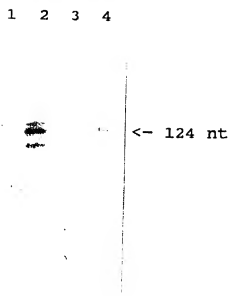


FIG. 18b

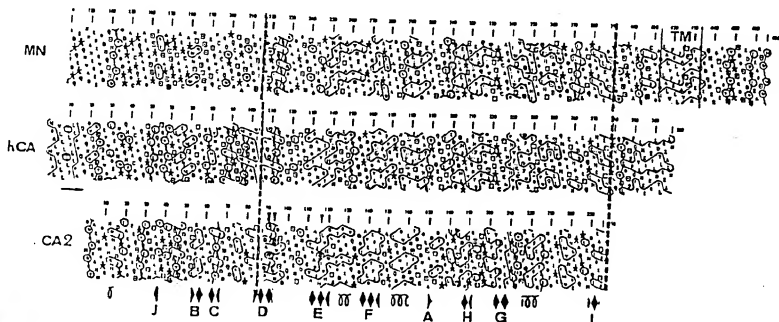


Fig. 19a

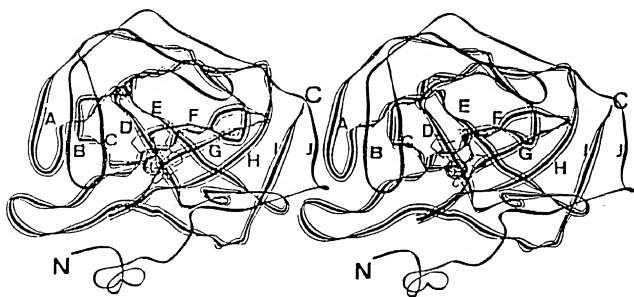


Fig. 19b

100210:6122460

5' MN Genomic Region



FIG. 20

0972729.013001

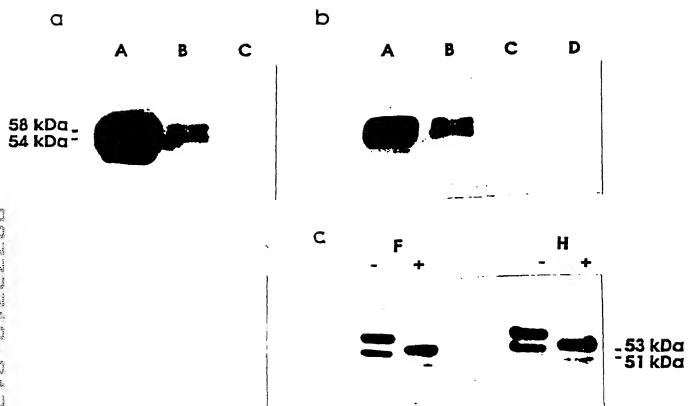


FIG. 21

00772719-013001

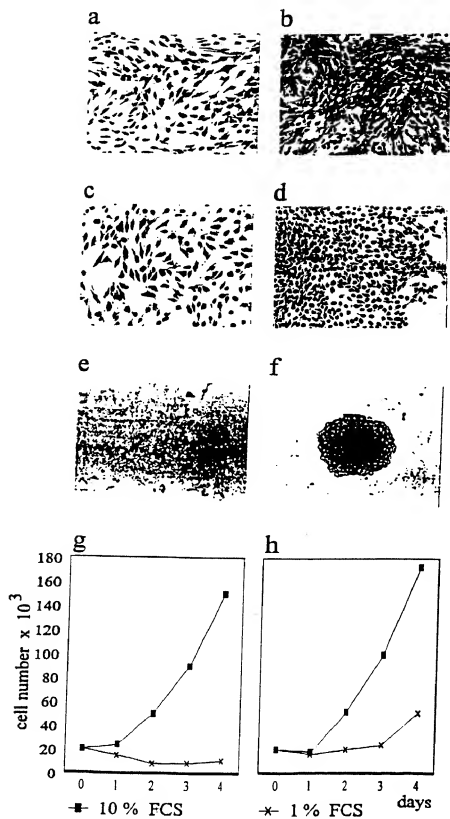


FIG. 22

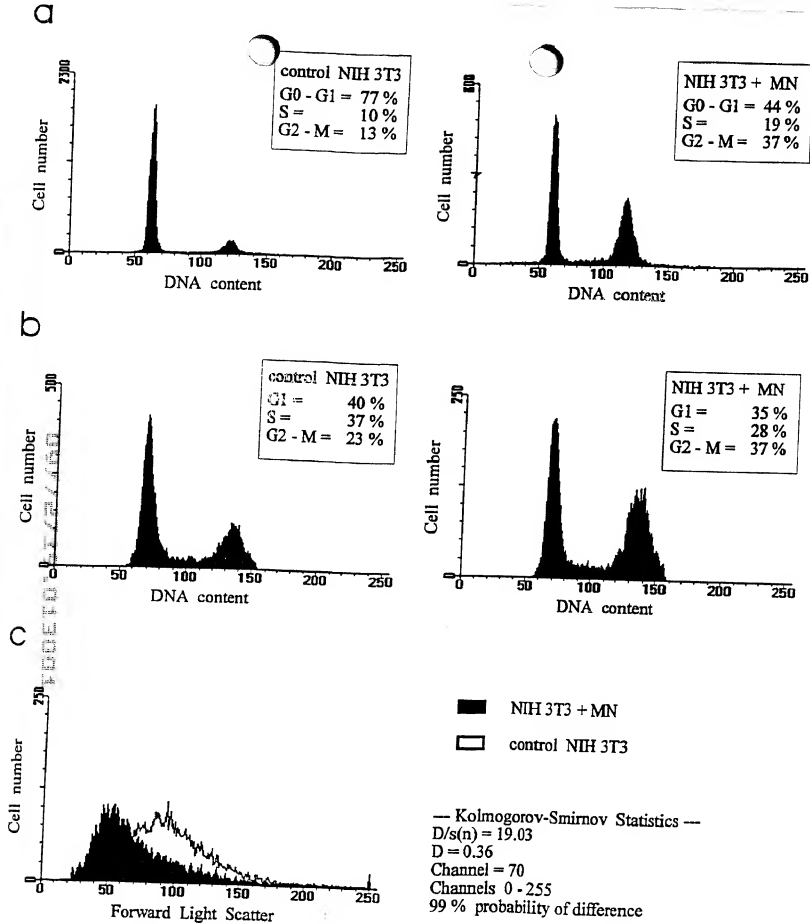


FIG. 23

09772719.013004

-506 CTTGCTTTTC ATTCAAGCTC AAGTTTGTC CCCACATACC CATTA⁻CTTAA CTCACCCCTCG

-446 GGCTCCCTTA GCAGCCTGCC CTACCTCTTT ACCTGCTTCC TGGTGGAGTC AGGGATGTAT
AP2 AP2

-386 ACATGAGCTG CTTTCCCTCT CAGCCAGAGG ACATGGGGGG CCCAGCTCC CCTGCCTTTTC

-326 CCCTTCGTG CTTGGAGCTG GGAAGCAGGC CAGGGTTAGC TGAGGCTGGC TGGCAAGCAG

-266 CTGGGTGGTG CCAGGGAGAG CCTGCATAGT GCCAGGTGGT GCCTTGGGTT CCAAGCTAGT
p53

-206 CCA⁻TGGCCCC GATAACCTTC TGCCGTGCA CACACCTGCC CCTCACTCCA CCCCATCCT
Inr

-146 AGCTTTGATA TGGGGGAGAG GGCACAGGC CAGACAAACC TGTGAGACTT TGGCTCCATC
Inr

-86 TCTGCAAAAG GCGCTCTGT GAGTCAGCCT GCTCCCCTCC AGGCTTGCTC CTCCCCCACC
AP1 AP2

-26 CAGCTCTCGT TTCCAATGCA CGTACAGCCC GTACACACCG TGTGCTGGGA CACCCACAG

FIG. 25

DDOETO 6122260

TOTALSEQUENCE EXTENT : FROM 1 TO 1898

CG

200

GC

627

SCALE (x1000)

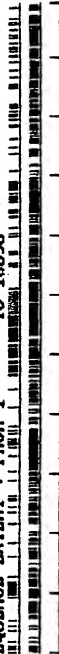


FIG. 26

100510-61422760

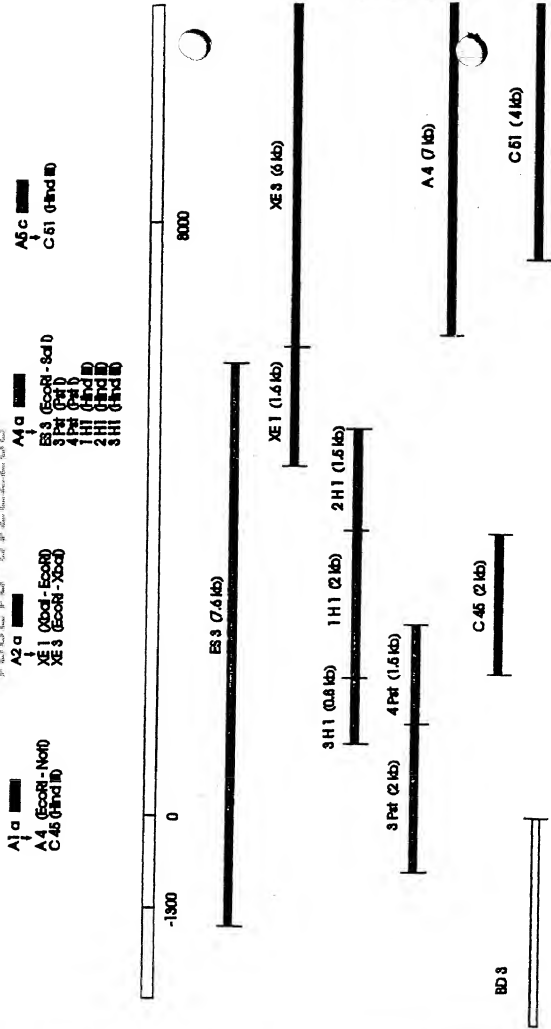


FIG. 27

CLONING OF MN-PROMOTER-CAT CONSTRUCTS

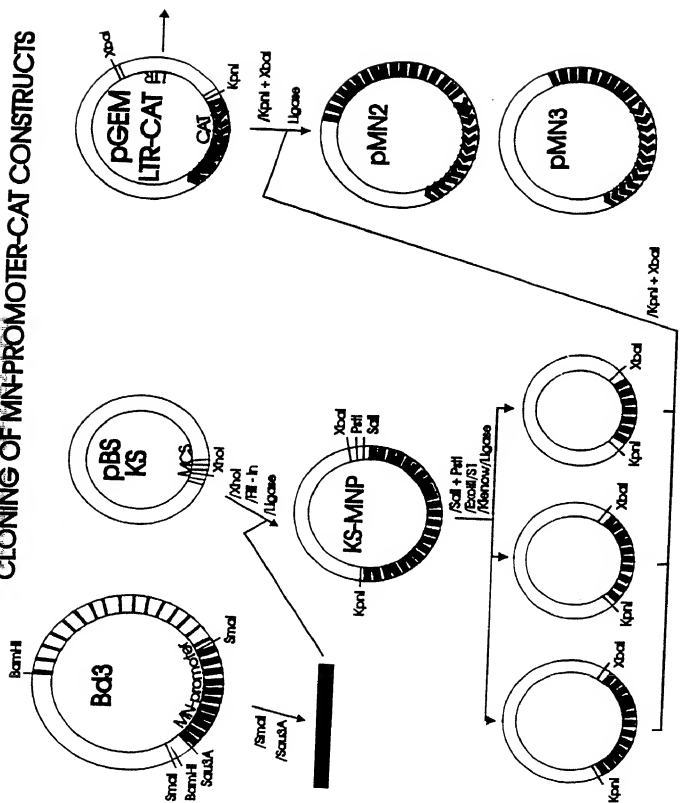


FIG. 28

STRUCTURE OF MN PROMOTER - CAT CONSTRUCTS

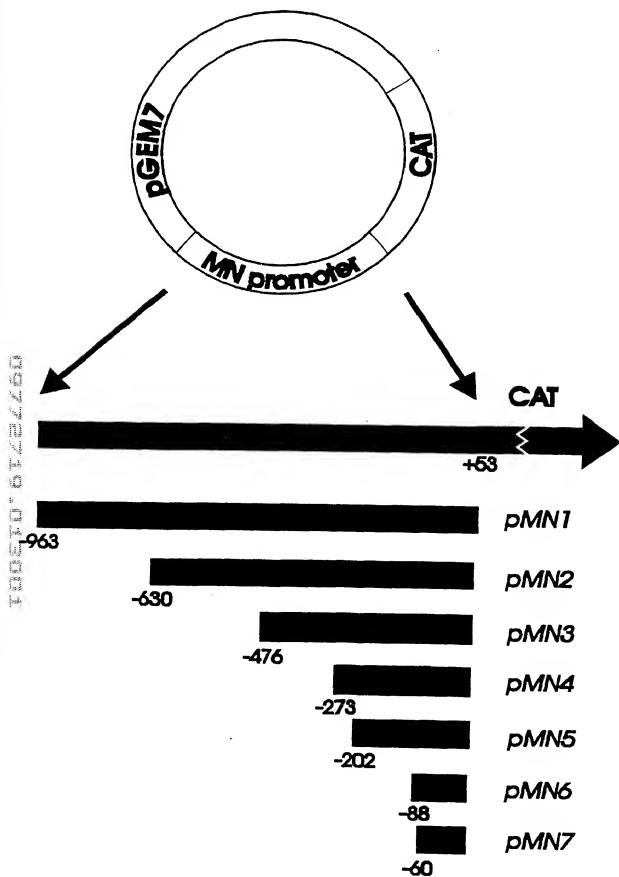


FIG. 29